

Serial No. 10/714,110
Filed: 11/14/03
Page 2 of 8

Examiner: Zeinab E. EL-Arini
Group Art Unit: 1746

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)
2. (Currently Amended) The method according to claim 13, wherein Method according to claim 1, wherein that the pre-rinse operation step is undertaken with or without comprises one of heating up or not heating the rinsing-rinse liquid.
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Currently Amended) The method according to claim 15, wherein Method according to claim 7, wherein that the duration of the cleaning step and the water temperature of the cleaning step length of time of the cleaning process and/or the temperature of the cleaning process is (are) continuously controlled between a minimum value and a maximum value as a function of the turbidity of the rinsing-rinse liquid and the determined solubility of the soiling of the dishes.
9. (Currently Amended) The method according to claim 13, wherein Method according to one of claim 8, wherein that a fuzzy set is used in the central control unit for determining the solubility deriving the output values from the input values.

Serial No. 10/714,110
Filed: 11/14/03
Page 3 of 8

Examiner: Zeinab E. EL-Arini
Group Art Unit: 1746

10. (Currently Amended) ~~The method according to claim 9, wherein Method according to claim 9, wherein that~~ fuzzy rules are programmed in a programmable memory of the central control unit in order to adapt the fuzzy set to changes in the rinse ~~program of the dishwasher step.~~
11. (Cancelled)
12. (New) A method of cleaning dishes in a dishwasher in accordance with a programmed wash cycle implemented by a central control unit and comprising a rinse step where a rinse liquid is recirculated in the dishwasher and a cleaning step where a wash liquid is recirculated in the dishwasher, the method comprising:
- determining the solubility of the soil on the dishes to be cleaned; and
- setting at least one operating parameter of the cleaning step based on the determined solubility.
13. (New) The method according to claim 12, wherein the determination of solubility occurs during a pre-rinse step.
14. (New) The method according to claim 13, wherein the pre-rinse step comprises a portion of the rinse step.
15. (New) The method according to claim 12, wherein the setting of the at least one operation parameter comprises setting at least one of the duration of the cleaning step, the water temperature of the cleaning step, the volume of water during the cleaning step, and the quantity of cleaning agent.
16. (New) The method according to claim 12, wherein determining the solubility of the soil on the dishes comprises determining at least one of a temperature of the rinse liquid and a turbidity characteristic of the rinse liquid.
17. (New) The method according to claim 16, wherein the determining of the turbidity

Serial No. 10/714,110
Filed: 11/14/03
Page 4 of 8

Examiner: Zeinab E. EL-Arini
Group Art Unit: 1746

characteristic of the rinse liquid comprises determining the length of time required for the turbidity to stop increasing during the rinse step.

18. (New) The method according to claim 17, wherein determining the length of time for the turbidity to stop increasing comprises obtaining at least one measurement from a turbidity sensor.

19. (New) The method according to claim 18, wherein determining the length of time for the turbidity to stop increasing comprises determining a difference in turbidity measurements associated with the selective operation of an upper spray device and a lower spray device.

20. (New) The method according to claim 19, wherein the selective operation of the upper spray device and the lower spray device comprises alternately operating the upper spray device and the lower spray device.